

Title (en)

A CLEANER CAPABLE OF CONTROLLING MOTOR POWER AND CONTROL METHOD THEREOF

Title (de)

REINIGUNGSVORRICHTUNG ZUR STEUERUNG DER MOTORLEISTUNG UND STEUERVERFAHREN DAFÜR

Title (fr)

DISPOSITIF DE NETTOYAGE POUVANT RÉGLER LA PUISSANCE D'UN MOTEUR ET SON PROCÉDÉ DE RÉGLAGE

Publication

EP 3763273 B1 20211124 (EN)

Application

EP 19219813 A 20191227

Priority

KR 20190084428 A 20190712

Abstract (en)

[origin: US2019387943A1] A cleaner capable of controlling motor power and a control method thereof are disclosed. The cleaner may include a head suctioning external dirt, a stick communicating with the head, being adjustable in length, and providing a passage through which dirt that is suctioned moves, a length sensor mounted on the stick and sensing a length change of the stick, a motor providing dirt suction power to the head, a speed measurer measuring a movement speed and a movement direction of the head, and a controller controlling power of the motor. The controller may select minimum power for dirt suction of the motor on the basis of at least one of information about the length change of the stick, the movement speed of the head, and the movement direction of the head, and may control the motor to have the selected minimum power. The cleaner can transmit/receive wireless signals on a mobile communication network established in accordance with 5G (Generation) communication.

IPC 8 full level

A47L 9/28 (2006.01)

CPC (source: CN EP KR US)

A47L 5/22 (2013.01 - US); **A47L 5/24** (2013.01 - EP); **A47L 9/244** (2013.01 - KR); **A47L 9/28** (2013.01 - CN); **A47L 9/2805** (2013.01 - EP KR); **A47L 9/281** (2013.01 - CN EP KR US); **A47L 9/2836** (2013.01 - CN); **A47L 9/2842** (2013.01 - EP KR US); **A47L 9/2863** (2013.01 - KR); **A47L 9/2894** (2013.01 - EP); **G06N 20/10** (2018.12 - CN); **H02P 7/00** (2013.01 - KR); **H04L 12/2816** (2013.01 - CN); **H04L 67/12** (2013.01 - CN); **Y02B 40/00** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

US 11064857 B2 20210720; **US 2019387943 A1 20191226**; CN 112205924 A 20210112; CN 112205924 B 20230331; EP 3763273 A1 20210113; EP 3763273 B1 20211124; KR 20190089795 A 20190731

DOCDB simple family (application)

US 201916559516 A 20190903; CN 202010115442 A 20200225; EP 19219813 A 20191227; KR 20190084428 A 20190712